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09/677,134	09/29/2000	Stanton J. Taylor	10022/039	1622

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EXAMINER

CORRIELUS, JEAN M

ART UNIT PAPER NUMBER

2172

DATE MAILED: 05/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/677,134

Applicant(s)

TAYLOR, STANTON J.

Examiner

Jean M Corrielus

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 15 March 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-41 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-41 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. This office action is in response to the Request for Continued Examination filed on March 15, 2004, in which claims 1-41 are presented for further examination.

#### *Remark*

(A). The mapping correspondence of claims 1-41 of the pending application 09/677,134 to the pages in the book entitled Netcentric and Client/Server computing filed on March 15, 2004, has been considered by the examiner. Thus, the declarations submitted by inventor Stanton J. Taylor, wherein the book entitled Netcentric and Client/Server computing was submitted as evidence in support of Mr. Taylor factual statement that the features of the invention disclosed in claims 1-41 are supported by the book complies with the M.P.E.P section 715. The information referred to therein has been considered as to the merit.

Mr. Stanton J. Taylor, however, is the sole inventor of the application 09/677,134, wherein the claims invention 1-41 of the cited application are described in the book entitled Netcentric and Client/Server computing which is authored by Mark Goodyear; Hugh W. Ryan; Scott R. Sargent; Stanton J. Taylor; Timothy M. Boudreau; Yannis S. Arvanitis; Richard A. Chang; John K. Kaltenmark; Nancy K. Mullen; Shari L. Dove; Michael C. Davis; John C. Clark; and Craig Mindrum. Since, Stanton J. Taylor is not the sole author of the book entitled Netcentric and Client/Server computing; does not indicate which portion of the book describing his own work with respect to the claims; and the inventive entities of the invention are different from the book entitled Netcentric and Client/Server computing, therefore, the book entitled Netcentric and Client/Server computing consider is potential prior art.

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(B). The priority date of the provisional application 60/156,962 filed on October 01, 1999 has not been granted by the examiner because the information referred to therein is supported the invention as claimed.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-41 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Goodyear et al., (article entitled “Netcentric and Client/Server Computing A practice Guide”).

As to claim 1, Goodyear discloses the claimed “a plurality of database servers” **embodiments described on at least page 17-4 and associated figures**; “a plurality of data stores each in communication with one of the database servers, wherein the database servers are operable to access the data stores” **embodiments described on at least page 17-4 and associated figures**; “a client communicating with the database servers, wherein each of the data stores includes a predetermined portion of the data used within the netcentric computing system” **embodiments described on at least page 17-4 associated figures**; and “a webserver in communication with the client to act as the primary interface between and the client and the database servers” **embodiments described on at least pages 1-13 and 3-18 and associated figures**.

As to claim 2, Goodyear discloses the claimed “wherein the client communicates with the database servers using a web browser application” **embodiments described on at least page 3-21 and associated figure(s)**.



As to claim 3, Goodyear discloses the claimed “wherein the data is horizontally segmented to form the predetermined portion of the data included in each of the data stores” **embodiments described on at least page 18-4 and associated figure(s).**

As to claim 4, Goodyear discloses the claimed “wherein the data is vertically segmented to form the predetermined portion of the data included in each of the data stores” **embodiments described on at least page 18-7 and associated figure(s).**

As to claim 5, Goodyear discloses the claimed “wherein the data is segmented horizontally and vertically to form the predetermined portion of the data included in each of the data stores” **embodiments described on at least page 18-8 and associated figure(s).**

As to claim 6, Goodyear discloses the claimed “wherein the predetermined portion of the data representing all of the data in the netcentric computing system resides on at least one central data store” **embodiments described on at least page 18-14 and associated figures).**

As to claim 7, Goodyear discloses the claimed “wherein a predetermined portion of the data is replicated to form the predetermined portion of the data residing on at least one local data store” **embodiments described on at least page 18-9 and associated figures).**

As to claim 8, Goodyear discloses the claimed “wherein the predetermined portion of the data residing on the at least one central data store is segmented” **embodiments described on at least pages 18-2 and 18-9 and associated figure(s).**

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As to claim 9, Goodyear discloses the claimed “wherein the predetermined portion of the data residing on the at least one local data store is segmented” **embodiments described on at least pages 17-34 and 18-2 and associated figures.**

As to claim 10, Goodyear discloses the claimed “a plurality of database servers” **embodiments described on at least page 17-4 and associated figures;** “a plurality of data stores in communication with the database servers” **embodiments described on at least page 17-4 and associated figures;** “a database located within each of the data stores, wherein each of the databases are representative of a segment of the data in the netcentric computing system” **embodiments described on at least page 18-5 and associated figures;** “a network for communication with the database servers” **embodiments described on at least pages 17-4 and associated figures;** and “a webserver for communication within the network to provide access by the clients to the data. **embodiments described on at least pages 1-13 and 3-18 and associated figures.**

As to claim 11, Goodyear discloses the claimed “wherein the data is horizontally segmented to form the segment of the data included in each of the data stores” **embodiments described on at least page 18-4 and associated figures”.**

As to claim 12, Goodyear discloses the claimed “wherein the data is vertically segmented to form the segment of the data included in each of the data stores” **embodiments described on at least page 18-7 and associated figures.**

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As to claim 13, Goodyear discloses the “wherein the data is horizontally and vertically segmented to form the segment of the data included in each of the data stores” **embodiments described on at least page 18-8 and associated figures.**

As to claim 14, Goodyear discloses the claimed “a central database server located at a central site” **embodiments described on at least page 118-16 and associated figures;** “a central data store in communication with the central database server” **embodiments described on at least page 18-16 and associated figures;** “a local database server located at a local site in communication with the central database server” **embodiments described on at least page 18-16 and associated figures;** “a local data store in communication with the local database server wherein the local data store is populated with replica data of the data within the central data store” **embodiments described on at least page 18-2 and associated figures;** “a network for communication with the local database server and the central database server” **embodiments described on at least page 18-2 and associated figures;** and “a webserver for communication within the network to provide the primary interface for the clients to access the data within the netcentric computing system” **embodiments described on at least pages 1-13 and 3-18 and associated figures.**

As to claim 15, Goodyear discloses the claimed “wherein the communication between the central data base server and the local database server is via the network” **embodiments described on at least page 18-2 and associated figures.**

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As to claim 16, Goodyear discloses the claimed “wherein the replication is by unidirectional updates” **embodiments described on at least page 18-11 and associated figures.**

As to claim 17, Goodyear discloses the claimed “wherein the replication is by bi-directional updates” **embodiments described on at least page 18-12 and associated figures.**

As to claim 18, Goodyear discloses the claimed “identifying the data needs of a plurality of data entity groups within the netcentric computing system” **embodiments described on at least page 17-6 and associated figures;** “identifying predetermined portions of the data to be used by the data entity groups” **embodiments described on at least page 17-16 and associated figures;** “distributing the predetermined portions of the data to a plurality of data stores” **embodiments described on at least page 17-27 and associated figures;** “communicating with the data stores with a plurality of database servers” **embodiments described on at least page 17-24 and associated figures;** and “interfacing the database servers with the data entity groups using a webserver” **embodiments described on at least pages 1-13 and 3-18 and associated figures.**

As to claim 19, Goodyear discloses the claimed “the act of segmenting the data horizontally to create the predetermined portions of the data” **embodiments described on at least page 18-4 and associated figures.**

As to claim 20, Goodyear discloses the claimed “the act of segmenting the data vertically to create the predetermined portions of the data” **embodiments described on at least page 18-7 and associated figures.**



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As to claim 21, Goodyear discloses the claimed “the act of segmenting the data horizontally and vertically to create the predetermined portions of the data” **embodiments described on at least page 18-8 and associated figures.**

As to claim 22, Goodyear discloses the claimed “the act of replicating the data to create the predetermined portions of the data” **embodiments described on at least page 18-9 and associated figures.**

As to claim 23, Goodyear discloses the claimed “determining a plurality of segmentation parameters” **embodiments described on at least page 18-3 and associated figures;** “performing segmentation of the data based on the segmentation parameters” **embodiments described on at least page 18-4 and associated figures;** “storing the segmented data in a plurality of data stores; **embodiments described on at least page 18-3 and associated figures;** “communicating with the data stores with a plurality of database servers” **embodiments described on at least page 18-5 and associated figures;** “interfacing the database servers with a plurality of clients using a webserver” **embodiments described on at least pages 1-13, 3-18 and 18-5 and associated figures;** and “selectively accessing the database servers depending on data requests initiated by the clients” **embodiments described on at least page 18-5 and associated figures.**

As to claim 24, Goodyear discloses the claimed “wherein the segmentation performed is horizontal segmentation” **embodiments described on at least page 18-4 and associated figures.**

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As to claim 25, Goodyear discloses the claimed “wherein the segmentation parameters comprise a plurality of segmentation keys and the origin of the majority of the data requests” **embodiments described on at least page 18-3 and associated figures.**

As to claim 26, Goodyear discloses the claimed “wherein the segmentation performed is vertical segmentation” **embodiments described on at least page 18-7 and associated figures.**

As to claim 27, Goodyear discloses the claimed “wherein the segmentation parameters comprise determination of a plurality of related subject matter areas” **embodiments described on at least page 18-3 and associated figures.**

As to claim 28, Goodyear discloses the claimed “storing data in a central database; **embodiments described on at least page 18-14 and associated figures;** “replicating a predetermined portion of the data to create replica data” **embodiments described on at least page 18-9 and associated figures;** “transferring the replica data to a corresponding local database using a network” **embodiments described on at least page 18-4 and associated figures;** “updating the data in the central database and the local database” **embodiments described on at least page 18-4 and associated figures 18-13; and** “accessing the data and the replica data using the network and a webserver” **embodiments described on at least pages 1-13, 3-18 and 18-14 and associated Figures.**

As to claim 29, Goodyear discloses the claimed “the act of updating the data unidirectionally such that the local database is read only and updates to the replica data are performed in the central database” **embodiments described on at least page 18-11 and associated figures.**

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As to claim 30, Goodyear discloses the claimed “the act of requesting an update to the replica data within the local database from the central database” **embodiments described on at least page 18-11 and associated figures.**

As to claim 31, Goodyear discloses the claimed, “the act of creating a snapshot of the data within the central database that corresponds to the replica data when the replica data is transferred” **embodiments described on at least page 18-11 and associated figures.**

As to claim 32, Goodyear discloses the claimed “the act of subsequently updating the local database with replica data that is replicated from the central database following an update of the data in the central database that corresponds to the snapshot” **embodiments described on at least page 18-11 and associated figures.**

As to claim 33, Goodyear discloses the claimed “the act of subsequently updating the local database only with changes to the replica data based on the snapshot” **embodiments described on at least page 18-13 and associated figures.**

As to claim 34, Goodyear discloses the claimed “the act of publishing the replica data when a pre-determined threshold is reached” **embodiments described on at least page 18-12 and associated figures.**

As to claim 35, Goodyear discloses the claimed “the acts of monitoring the publications of replica data with a local database server, and updating the corresponding local database with replica data

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when the replica data that was published is an update to the replica data in the local database”  
**embodiments described on at least page 18-13 and associated figures.**

As to claim 36, Goodyear discloses the claimed “the act of updating the central database and the local database using bi-directional replication” **embodiments described on at least page 18-12 and associated figures.**

As to claim 37, Goodyear discloses the claimed “the act of updating the central database and the local database using selective replication” **embodiments described on at least page 18-13 and associated figures.**

As to claim 38, Goodyear discloses the claimed “the act of updating the central database with a remote log-on approach” **embodiments described on at least page 18-14 and associated figures.**

As to claim 39, Goodyear discloses the claimed “the act of updating the central database with a remote batch approach” **embodiments described on at least page 18-14 and associated figures.**

As to claim 40, Goodyear discloses the claimed “the act of updating the central database with a local checkout approach” **embodiments described on at least page 18-15 and associated figures.**

As to claim 41, Goodyear discloses the claimed “the act of updating the central database and the local database using a local update strategy” **embodiments described on at least page 18-15 and associated figures.**

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*Conclusion*

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean M. Corrielus whose telephone number is (703) 306-3035. The examiner can normally be reached on Monday - Friday (12:00pm - 7:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Breene can be reached on (703) 305-9790. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Jean M. Corrielus

Patent Examiner

May 14, 2004